

GROUP 90

CIRCUIT DIAGRAMS

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NOTES

HOW TO READ CIRCUIT DIAGRAMS

M1901000100447

The circuit of each system from the fuse (or fusible link) to ground is shown. The power supply is shown at the top and the ground at the bottom to facilitate understanding of how the current flows.

Indicates power source.

Indicates that terminal is connected via a plate in the relay box.

Each circuit diagram consists of block(s). The blocks are divided by page number.

Indicates splice point numbers. These numbers are identical to those described in "Splice Locations."

Indicates the circuit name to be connected. The arrow indicates the current flow direction.

Indicates the power supply in the control unit. If no voltage is displayed, this indicates battery positive voltage.

An "X" at the end of a connector number indicates that the connector is connected to a centralized junction that is shown in the section "Centralized Junction."

Indicates that the diagram continues at [2] which belongs to the [2] block in the same circuit.

Indicates the connector symbol. Connectors in the circuit diagram are indicated in numerical order.

Indicates connector number. The same number as used in the wiring harness diagram. Connector and connector numbers are shown at the lower part of the page. Connector numbers not enclosed by frame indicate the device incorporated into wiring harness.

Indicates the circuit name to be connected. The arrow indicates the current flow direction.

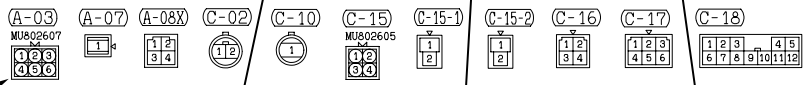
Indicates the operating conditions of the engine coolant switch, etc.

Indicates shield wire.

Indicates that current flows upwards.

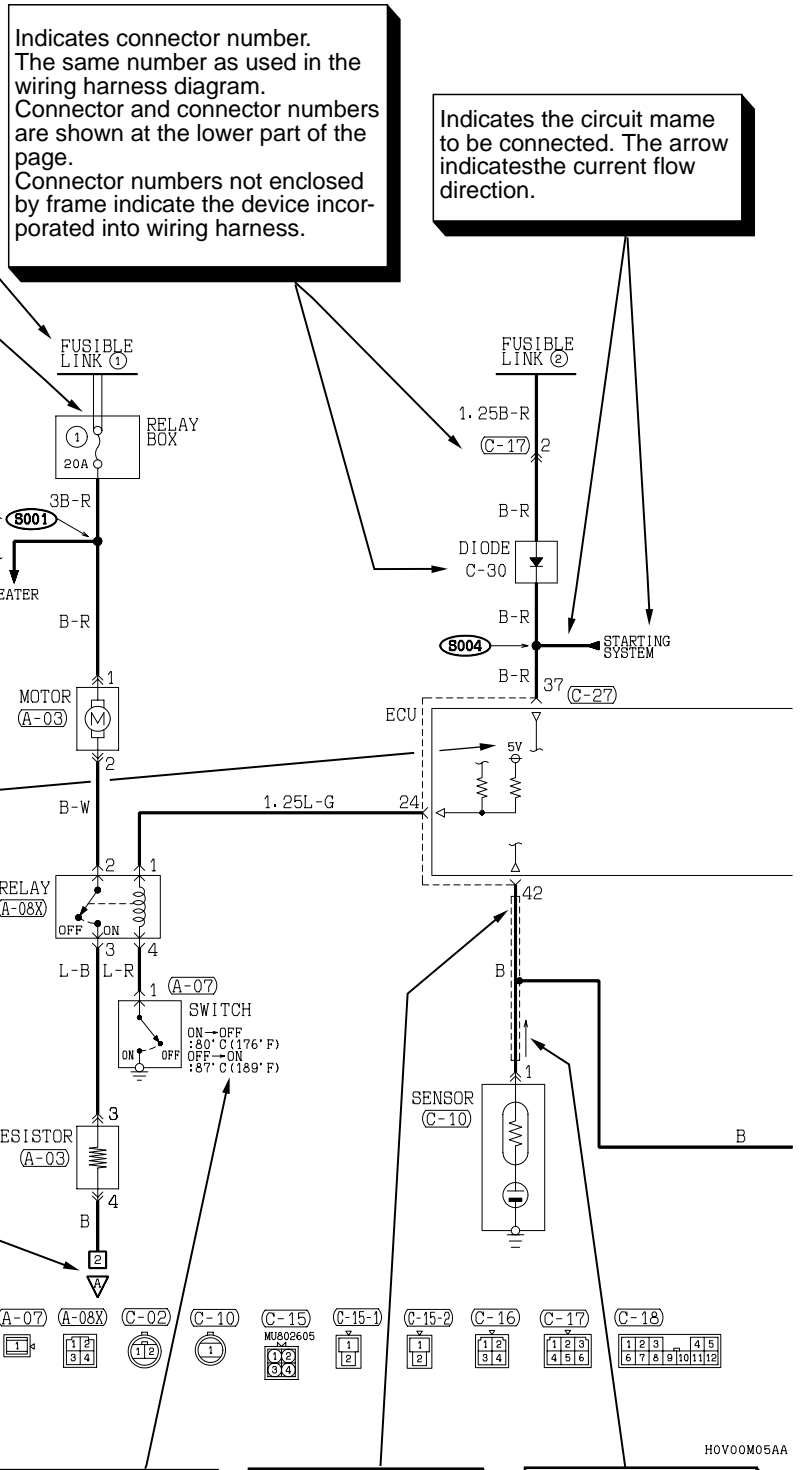
1

2



H0V00M05AA

AC106603AB



Indicates input/output to/from control unit (current flow direction).

Indicates a wiring connector which is inside the equipment and which is not shown in the wiring harness configuration diagram.

Example C-15-2

Indicates a connector which is inside the equipment, numbered in order starting from 1.

Indicates the connector number shown in the wiring harness configuration diagram.

Indicates that the diagram comes from ▽ which belongs to the 1 block in the same circuit.

A broken line indicates that these connectors are the same intermediate connectors.

Indicates terminal number.

In case two or more connectors are connected to the same device, markings indicating the same connector are connected by a broken line.

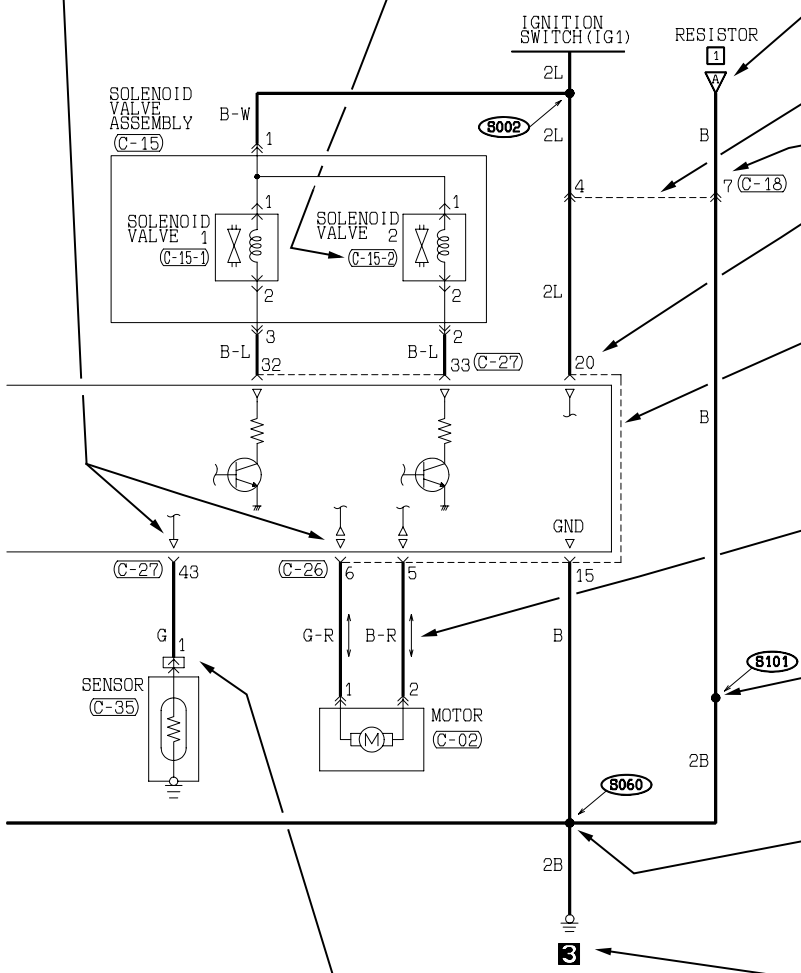
Indicates current flow downward or upward as controlled by the control unit.

Indicates harness junction where wire diameter or color changes.

Indicates intersections at which the lead wires are not connected.

Indicates intersections at which the lead wires are connected.

Indicates representative vehicle body ground point. (Same number as that of ground point in GROUNDING LOCATION).



(C-26) (MU801823)

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

(C-27) (MU801822)

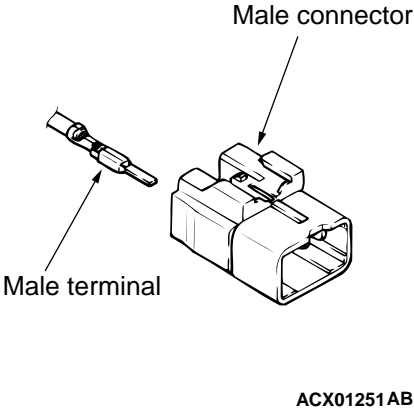

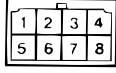
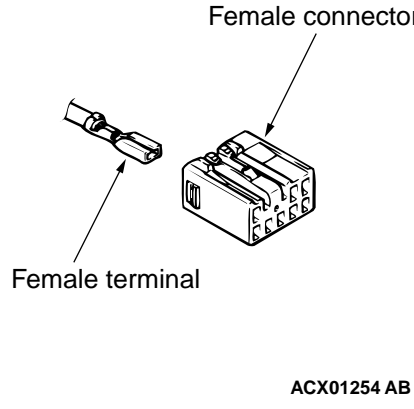

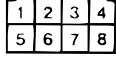
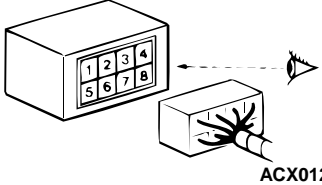
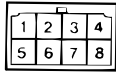
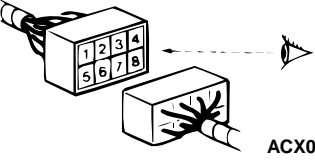
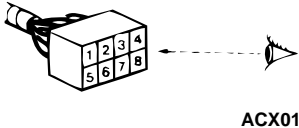
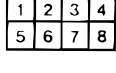
31	32	33	34	35	36	37	38
39	40	41	42	43	44	45	46

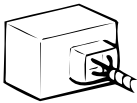
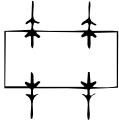
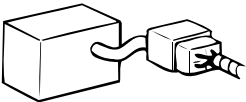
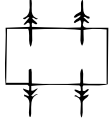
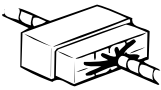

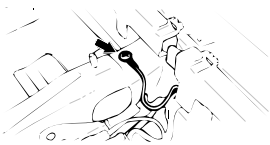





(C-35)

1

Indicates that the terminal is a spare one if the device (sensor in this case) is not provided.




















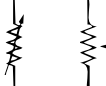


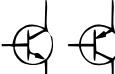

H0V00M05AB

ITEM	NO.	CONNECTOR/ GROUNDING	SYMBOL	CONTENTS
Connector and terminal marking	1		<p>Male terminal</p>  <p>ACX01252 AB</p>	The male and female terminals are indicated as shown. The connector with male terminal(s) is called as male connector and indicated by two connector contour lines, while the connector with female terminal(s) is called as female connector and indicated by single connector contour line.
			<p>Female connector</p>  <p>ACX01253 AB</p>	
			<p>Female terminal</p>  <p>ACX01255 AB</p>	
			<p>Female connector</p>  <p>ACX01256 AB</p>	
Connector symbol marking	2	<p>Device</p> 	 <p>ACX01253</p>	The symbol indicates the connector is viewed as shown. At a device connection, the connector symbol on the device side is shown. For an intermediate connector, the male connector symbol is shown. For spare connectors and check connectors, no device is connected, and so the harness-side connector symbol is shown for these connectors. For the data link connector, its contents differ from the previous description. Refer to "scan tool operation instruction" in detail.
		<p>Intermediate connector</p> 		
		<p>Spare connector, check connector</p> 	 <p>ACX01256</p>	

ITEM	NO.	CONNECTOR/ GROUNDING	SYMBOL	CONTENTS
Connector connection marking	3	Direct connection type  ACX01260 AB	 ACX01261	Connection between a device and the harness is either by direct insertion in the device (direct connection type) or by connection with a harness connector furnished on the device side (harness connection type). The two types are indicated as illustrated.
	4	Harness connection type  ACX01262 AB	 ACX01263	
	5	Intermediate connector  ACX01264 AB	 ACX01265	
Ground markings	6	Body ground  ACX01273 AB	 ACX01274	Grounding is either by body ground, device ground or control unit interior ground. These are indicated as illustrated.
	7	Device ground  ACX01275 AB	 ACX01276	
	8	Ground in control unit  ACX01277 AB	 ACX01278	

SYMBOLS (EXCEPT CONNECTOR AND GROUNDING)

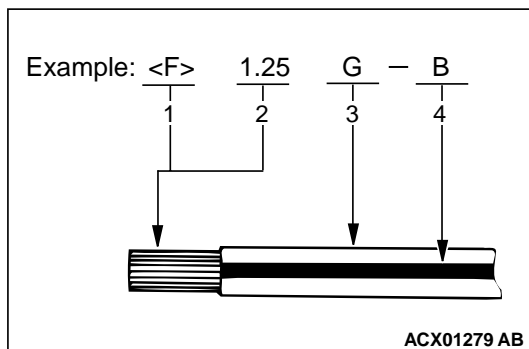
Devices appearing in circuit diagrams are indicated by the following symbols.

battery  ACX02377 AB	buzzer  ACX02378 AB	Capacitor  ACX02379 AB	electrolytic capacitor  ACX02380 AB	Variable capacitor  ACX02381 AB	Coil  ACX02382 AB
diode  ACX02383 AB	light emitting diode  ACX02384 AB	photo diode  ACX02385 AB	Zener diode  ACX02386 AB	dual bulb  ACX02387 AB	Single bulb  ACX02388 AB
Fuse  ACX02389 AB	Fusible link  ACX02390 AB	horn  ACX02391 AB	motor  ACX02392 AB	Pulse generator  ACX02393 AB	Piezoelectric device  ACX02394 AB
Resistor  ACX02395 AB	Variable resistor  ACX02396 AB	Speaker  ACX02397 AB	Thermistor  ACX02398 AB	Transistor  ACX02399 AB	photo transistor  ACX02400 AB

WIRE COLOR CODES

Wire color are identified by the following color codes.

CODE	WIRE COLOR	CODE	WIRE COLOR	CODE	WIRE COLOR	CODE	WIRE COLOR
B	Black	L	Blue	R	Red	Y	Yellow
BR	Brown	LG	Light green	SB	Sky blue	-	-
G	Green	O	Orange	V	Violet	-	-
GR	Gray	P	Pink	W	White	-	-



If a cable has two colors, the first of the two color code characters indicates the basic color (color of the cable coating) and the second indicates the marking color.

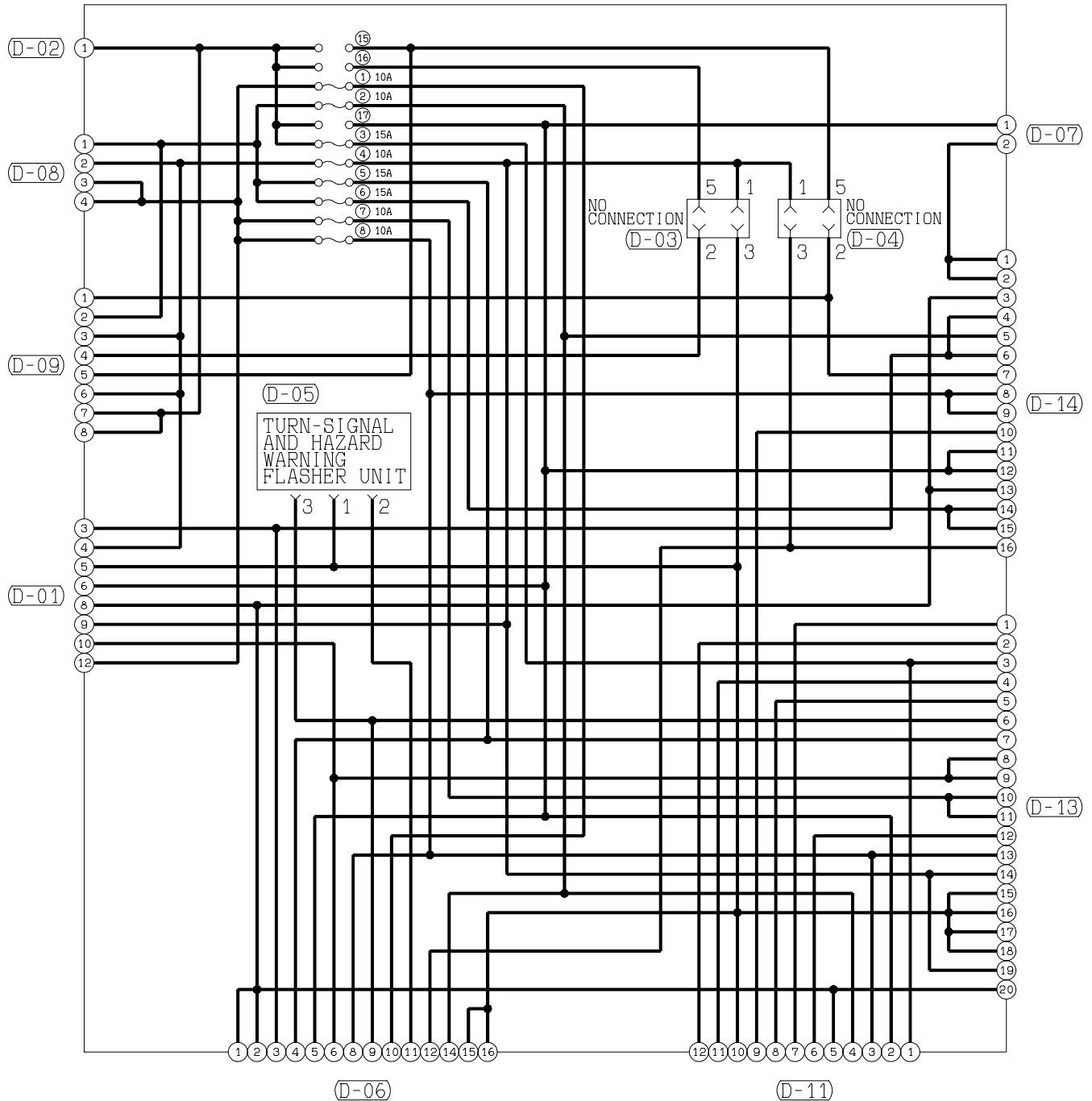
NO.	MEANING
1	<F>: Flexible wire
	<T>: Twisted wire
2	Wire size (mm ²)*
3	Basic color (color of the cable coating)
4	Marking color

NOTE:

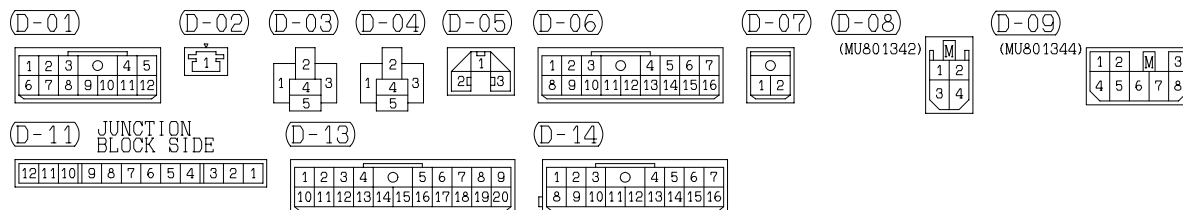
*: No code indicates 0.5 mm² (0.0008 in²). Cable color code in parentheses indicates 0.3 mm² (0.0005 in²).

JUNCTION BLOCK

M1901000200466



NOTE
CONNECTOR NUMBERS ARE KEYED TO THE CONFIGURATION
DIAGRAM AND EACH CIRCUIT DIAGRAM.



H3P00M00AA